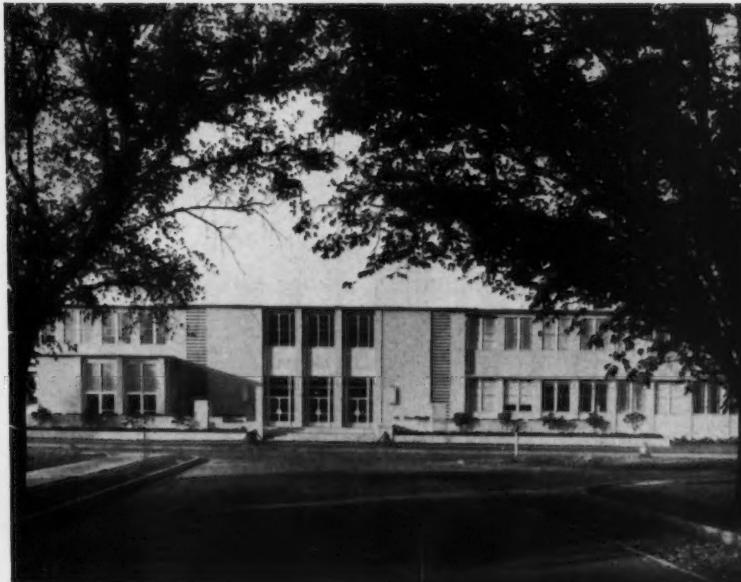


THE
**CALIFORNIA
VETERINARIAN**

Midwinter Conference

FEBRUARY 2, 3, 4, 1959

DAVIS • CALIFORNIA



HARING HALL, VETERINARY SCIENCE BUILDING, DAVIS

NOVEMBER - DECEMBER, 1958



PUBLISHED BY CALIFORNIA VETERINARY MEDICAL ASSOCIATION



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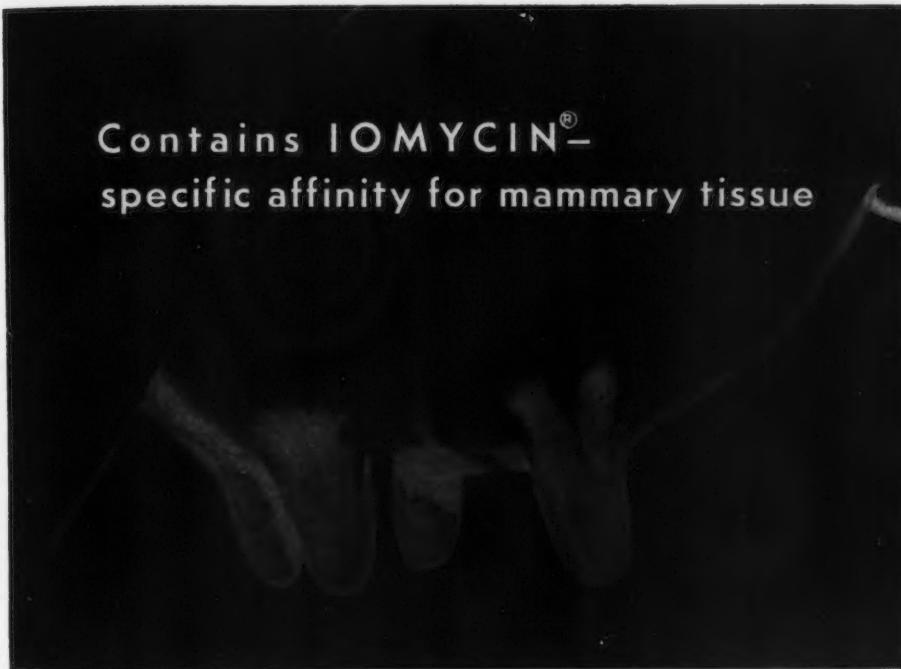
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VACCINE**

Inactivated Virus

**CANINE DISTEMPER
VACCINE**

*Desiccated
Modified Live Virus
Chick Embryo Origin*

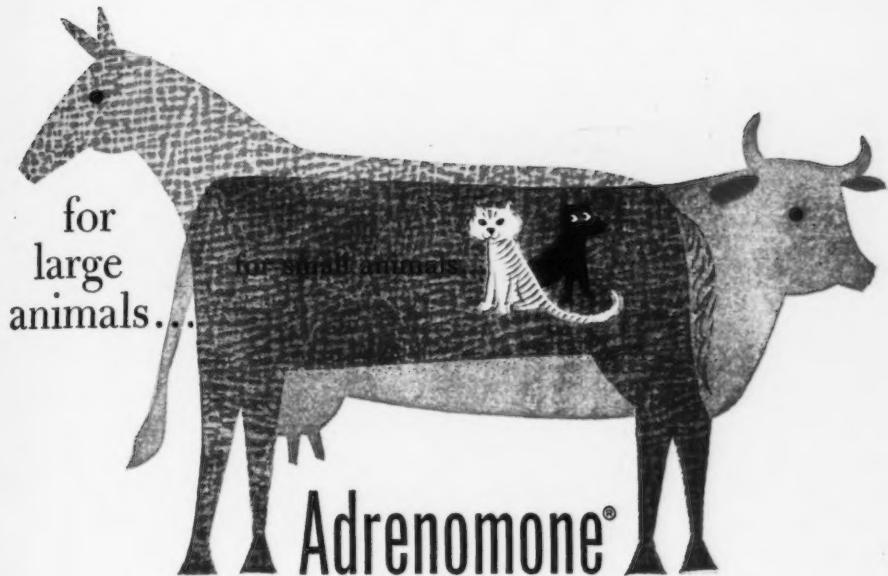
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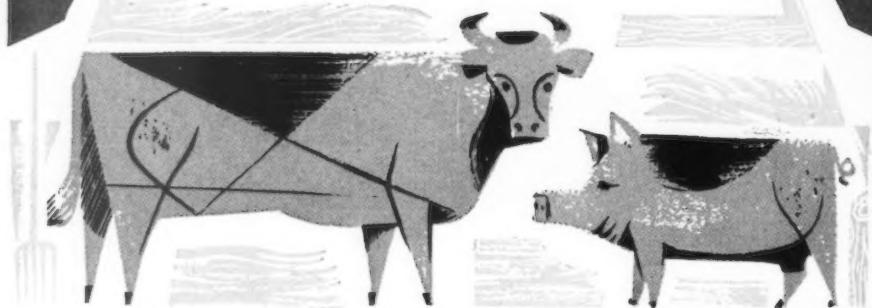
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a killed pure whole culture no danger of infecting healthy animals each serial lot subjected to rigid quality control tests for safety, potency and purity

Injected subcutaneously in 5 cc. doses—with booster dose of 5 cc. recommended at 6-month intervals.

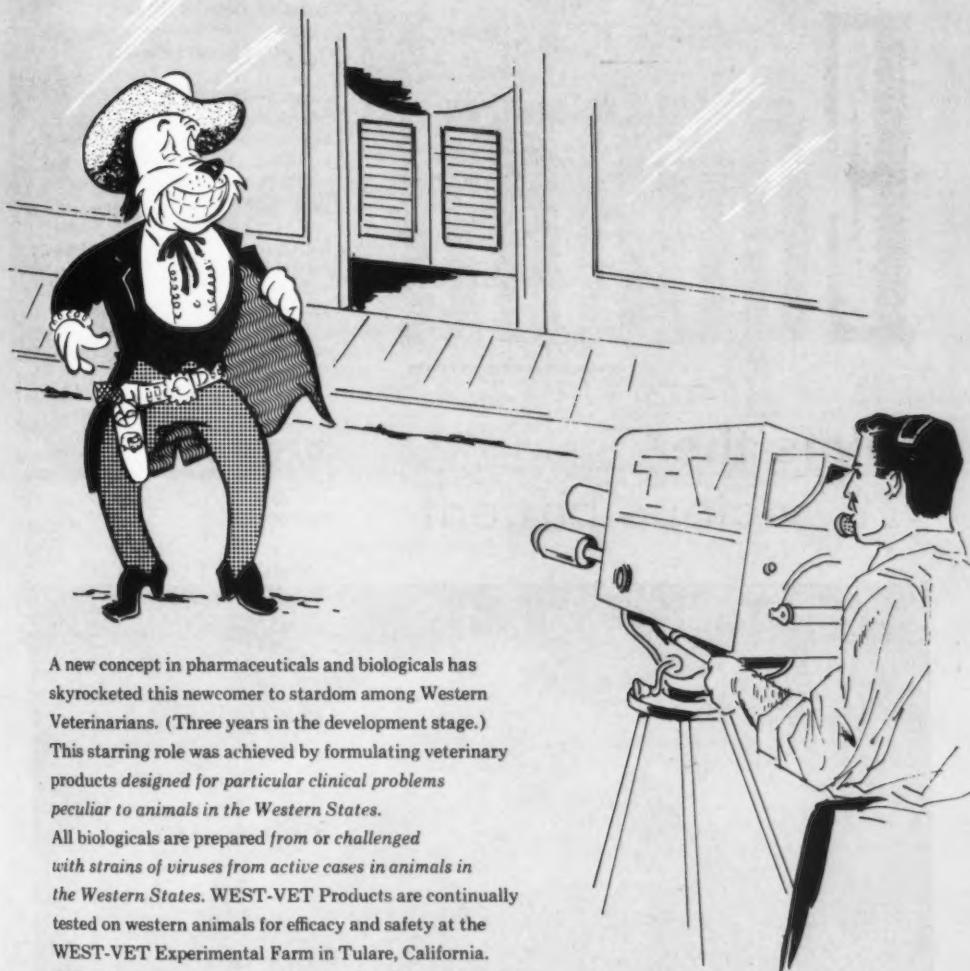
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THE CALIFORNIA VETERINARIAN

NOVEMBER-DECEMBER, 1958

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In addition to members of the CVMA, the following states also receive
THE CALIFORNIA VETERINARIAN: Arizona, Idaho, Montana, Nevada, New Mexico,
Oregon, Washington and Territory of Hawaii.

Volume 12

Number 2

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good men from year's be-
ginning to year's end.*

*May this Christmas be full
of joy for you.*

*Let the Christmas spirit sing
in our hearts and find ex-
pression in kindly acts and
loving words.*

*Let us resolve that so far as
we are concerned peace and
good will shall be our motto
every day and that we will
do our best to make the
Christmas spirit last all the
year round.*

*In deep sincerity all of us
here wish you a
Merry Christmas
and a New Year of success
in all of your endeavors.*

Sincerely
CHARLES S. TRAVERS

Midwinter Conference Speakers



S. J. ROBERTS

S. J. Roberts was born in Indiana, but most of his early life was spent in a small town in western New York. His pre-veterinary and veterinary schooling was taken at Cornell, where he received the degree of D.V.M. in 1938. Four years after graduation Dr. Roberts became an instructor in the Department of Medicine and Surgery at Kansas State College, and received his M.S. degree there in 1942. He next returned to teach in the Department of Medicine and Obstetrics and Ambulatory Clinic at Cornell, where he has been a professor and polo coach since 1946. In 1956 he published a textbook, "Veterinary Obstetrics and Genital Diseases," which is the only complete and up-to-date text on this subject published in the United States.



J. W. OSEBOLD

J. W. Osebold, D.V.M., Ph.D., is Associate Professor of Microbiology, University of California, Davis. Dr. Osebold will speak on "Wild Deer as Carriers of Anaplasmosis in California," at the Midwinter Conference.



JAMES H. GILLESPIE

James H. Gillespie, a native of Pennsylvania, graduated from the University of Pennsylvania in 1939, with the degree of V.M.D. He became an officer in the Veterinary Corps in 1940 and spent 2½ years in the China-India-Burma theatre. Dr. Gillespie has been Poultry Pathologist at the University of New Hampshire; Assistant Professor of Poultry Pathology at the New York State Veterinary College, Cornell, and Assistant Professor of Veterinary Bacteriology; Associate Professor, and Professor at Cornell. In 1953-54 he spent sabbatical leave as post-doctoral Public Health Service Fellow in Holland at Dr. Frenkel's laboratory, studying aspects of foot-and-mouth disease. While at Cornell he published 25 research papers on virus diseases of animals.



W. J. ZONTINE

W. J. Zontine, a former president of the CVMA, will speak on "Practical Laboratory Screening Procedures," and will participate in the Clinical Pathology Conference.

O. W. Schalm, Associate Dean (Acting Dean, Sept. 1958-March 1959), will give the Welcome Address, Monday afternoon, February 2, and will participate in the short course on Laboratory Procedures.



O. W. SCHALM

PROGRAM

CALIFORNIA VETERINARY MEDICAL ASSOCIATION

MIDWINTER CONFERENCE

PROGRAM COMMITTEE: *Chairman*, Ernest H. Houchin; *Co-Chairman*, J. W. Kendrick
Herbert N. Snow, J. L. Sullivan, Willard D. Ommert
Joshua F. Meyer, *Co-Chairman* for June Meeting.

FEBRUARY 2, 3, 4, 1959, SCHOOL OF VETERINARY MEDICINE, DAVIS

MONDAY, FEBRUARY 2, 1959

GENERAL SESSION

Morning

9:00—CVMA Registration, Haring Hall.

9:00—The School of Veterinary Medicine will offer short courses of lectures and demonstrations in the following subjects:
Roentgenography—T. J. Hage, Auditorium.
Lameness in the Horse—J. D. Wheat,
Large Animal Surgery, Room 1322.
Laboratory Procedures—O. W. Schalm,
D. E. Cornelius, J. J. Kaneko, Room
1204.

Afternoon

Auditorium

Chairman, J. W. KENDRICK

1:30—Welcome—O. W. Schalm, Associate Dean (Acting Dean; Sept. 1958—March 1959).
1:45—Immunity to Distemper in Dogs, J. H. Gillespie.
2:20—The Enigma of Virus and Cancer, W. L. Bostick.
2:55—The Physiological Effects of Gonadal Hormones on Human Subjects, E. W. Page.
3:30—Hospital Management, T. D. Harris, Jr.
4:00—Business Meeting CVMA.

• • •

TUESDAY, FEBRUARY 3, 1959

SMALL ANIMAL SECTION

Auditorium

Morning

Chairman, JOSHUA F. MEYER

8:30—Film: Kidney Function in Health.
9:10—Infectious Canine Hepatitis, with Particular Emphasis on Immunity, J. H. Gillespie.
9:35—Nervous System Involvement in Distemper, D. R. Cordy.
9:55—Laboratory Aids in the Diagnosis of Canine Distemper, R. M. Cello.
10:10—Evaluation of a Dual Vaccine for Canine Distemper and Infectious Canine Hepatitis Under Field Conditions, J. H. Gillespie.
10:40—Some Skin Tumors in Dogs and Their Behavior, P. C. Kennedy.
11:00—Clinical Care and Prognosis in Canine Respiratory Coccidioidomycosis, C. H. Burger
11:20—Roentgenological Diagnosis of Congenital Abnormalities of the Hip and Femur in the Dog, T. J. Hage.

Afternoon

Chairman, ERNEST H. HOUGHIN

1:30—The Role of Intrauterine Infection with *Toxocara canis* in the Dog, N. F. Baker.
2:15—Practical Laboratory Screening Procedures, W. J. Zontine.

2:35—Replacement of the Anterior Cruciate Ligament by Fascia Lata Transplant, N. L. McBride.

3:00—Clinical Pathology Conference. A Case for Diagnosis submitted by the Small Animal Clinic, School of Veterinary Medicine. To be discussed by W. J. Zontine, T. D. Harris Jr., C. H. Burger and E. C. Story.

• • •

TUESDAY, FEBRUARY 3, 1959

LARGE ANIMAL SECTION

Room 176, Home Economics Building

Morning

Chairman, WEDEN P. HUMPHREY

8:30—Film: Kidney Function in Health.
9:10—Milking Machine Pulsators and the Mastitis Problem, O. W. Schalm and D. O. Noorlander.
9:30—The California Brucellosis Control Area Program, H. G. Wixom.
9:50—Brucellosis Testing as Handled by the Practitioner, C. J. Ferreira.
10:05—Infertility in Cattle Due to Ovarian Diseases, S. J. Roberts.
10:45—A Dairy Herd Reproduction Program, E. M. Plocher.
11:15—Ovine Virus Abortion in the United States, Blaine McGowan.
11:35—The Use of Tranquilizers in Shipping Beef Cattle, P. C. Enge.

Afternoon

Chairman, GILBERT S. JACKSON

1:30—A Disease Control Program for the Beef Feeder, D. H. Marioni.
2:00—A Practitioner's Approach to Hardware Disease, L. A. Baker.
2:20—Ketosis of Cattle, S. J. Roberts.
2:55—How Veterinarians Have Included Poultry in Their Practice, C. D. Lee.
3:20—Wild Deer as Carriers of Anaplasmosis in California, J. W. Osebold.
3:40—Evaluating Range Bull Fertility by the Semen Test, S. E. Rood.

• • •

WEDNESDAY, FEBRUARY 4, 1959

GENERAL SESSION

Auditorium

Morning

Chairman, LYLE BAKER

8:30—Film: Kidney Function in Disease.
9:15—Virus Disease of the Bovine Genital Organs, J. W. Kendrick.
9:45—Questions.
10:45—Closed Circuit TV.

Afternoon

1:30—Closed Circuit TV.

Conference Speakers

L. A. Baker, D.V.M., Practitioner, Turlock.
N. F. Baker, D.V.M., Ph.D., Assistant Professor of Parasitology, University of California, Davis.
W. L. Bostick, M.D., Professor of Pathology and Director of Clinical Laboratories, School of Medicine, University of California, San Francisco.
C. H. Burger, D.V.M., Practitioner, Bakersfield.
R. M. Cello, D.V.M., Associate Professor of Veterinary Medicine, University of California, Davis.
D. R. Cordy, D.V.M., Ph.D., Professor of Veterinary Pathology, University of California, Davis.
C. E. Cornelius, D.V.M., Ph.D., Assistant Professor of Veterinary Science, University of California, Davis.
P. C. Enge, D.V.M., Extension Veterinarian, University of California, Davis.
C. J. Ferreira, D.V.M., Practitioner, Redding.
J. H. Gillespie, V.M.D., Professor, Veterinary Virus Research Institute, New York State Veterinary College, Cornell University, Ithaca, New York.
T. J. Hage, D.V.M., Associate Professor of Veterinary Medicine, University of California, Davis.
T. D. Harris Jr., D.V.M., Practitioner, San Mateo.
J. W. Harrison, D.V.M., Practitioner, Santa Cruz.
J. P. Hughes, D.V.M., Assistant Professor of Veterinary Medicine, University of California, Davis.
R. J. Jakotich, D.V.M., Practitioner, Fair Oaks.
J. J. Kaneko, D.V.M., Ph.D., Lecturer in Veterinary Medicine, University of California, Davis.
J. W. Kendrick, D.V.M., Associate Professor of Veterinary Medicine, University of California, Davis.
P. C. Kennedy, D.V.M., Ph.D., Assistant Professor of Veterinary Pathology, University of California, Davis.
C. D. Lee, D.V.M., Extension Veterinarian, Iowa State College, Ames, Iowa.
D. E. Madsen, D.V.M., Practitioner, San Jose.
D. H. Marioni, D.V.M., Practitioner, Sonoma.
N. L. McBride, D.V.M., Practitioner, Pasadena.
P. L. McClave, D.V.M., Practitioner, Reseda.
Blaine McGowan, D.V.M., Assistant Professor of Veterinary Medicine, University of California, Davis.
G. H. Muller, D.V.M., Practitioner, Walnut Creek.
D. O. Noorlander, B.S., Assistant Specialist in the Experiment Station, University of California, Davis.
J. W. Osebold, D.V.M., Ph.D., Associate Professor of Microbiology, University of California, Davis.
E. W. Page, M.D., Professor of Obstetrics and Gynecology and Head of the Department, School of Medicine, University of California, San Francisco.
G. D. Pettit, D.V.M., Assistant Professor of Veterinary Medicine, University of California, Davis.
E. M. Plocher, D.V.M., Practitioner, Watsonville.
C. H. Reid, D.V.M., Practitioner, Hollywood.
S. J. Roberts, D.V.M., Professor of Veterinary Medicine and Obstetrics, New York State Veterinary College, Cornell University, Ithaca, New York.
S. E. Rood, D.V.M., Practitioner, Chico.
O. W. Schalm, D.V.M., Ph.D., Professor of Veterinary Science and Associate Dean of the School of Veterinary Medicine, University of California, Davis.
W. E. Steinmetz, D.V.M., Practitioner, Sacramento.
E. C. Story, D.V.M., Practitioner, Sacramento.
J. D. Wheat, D.V.M., Professor of Veterinary Medicine, University of California, Davis.
H. G. Wixom, D.V.M., Chief, Bureau of Livestock Disease Control, Department of Agriculture, Sacramento.
W. J. Zontine, D.V.M., Practitioner, Lancaster.

Closed Circuit Television Program

Wednesday, 10:45 — Recess, 1:30

Auditorium

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Moderators

ROBERT M. CELLO and CHARLES H. REID

Hardware Disease, L. A. Baker.
Standard Horse Equipment Useful to the Veterinarian, C. H. Burger.
The Caslick Operation in the Cow, S. J. Roberts.
Some Techniques in Teat Surgery, S. J. Roberts.
Useful Procedures for the Large Animal Practitioner, John P. Hughes, S. J. Roberts.
Positioning for Roentgenography, T. J. Hage.
The Debarking Operation, G. Pettit.
A Method of Repairing Fracture of the Mandible, R. J. Jakotich.
Diagnostic Aids Dermatology, G. H. Muller.
Treatment and Surgery in Pet Birds, D. E. Madsen.
Useful Procedures for the Small Animal Practitioner, N. L. McBride, W. E. Steinmetz, P. L. McClave, J. W. Harrison.

Tentative Program*

Western Poultry Disease Conference

February 3, 1959

Chairman, R. D. CONRAD

9:00—Laryngotracheitis. N. H. Casselberry, W. D. Urban, L. G. Raggi.
10:00—Newcastle Disease. R. A. Bankowski, A. S. Rosenwald, and others.
11:00-11:15—Recess.
11:15—Epidemic Tremor. K. Schaaf, D. V. Zander.
12:00—Salmonella and PPLO Testing in Iowa. C. D. Lee
12:30- 1:30—Lunch
1:30—Coccidiosis. L. M. Skamser, O. H. Peterson, S. R. Exstrom, Moderator, and others.
2:45—Federal Poultry Inspection Program. R. E. Willie.
3:15- 3:30—Recess.
3:30—Avian Hepatitis. R. W. Winterfield, R. W. Wichmann, S. S. Jamison, H. E. Adler, Moderator.
4:30—Ornithosis. D. E. Davis, L. A. Page.

* A complete list of the speakers cannot be given at this time because all replies to the invitations had not been received at press time.

American Animal Hospital Association Regional Meeting

DATE: February 2, 1959.

TIME: 7:30 P.M.

PLACE: Rodeo Room, El Rancho Hotel, West Sacramento, Calif.

PROGRAM: "Clean-up, Fix-up, Paint-up."

Dinner meeting 7:30 Cocktails 6:30

Non-members and wives cordially invited.

WOMEN'S AUXILIARY LUNCHEON

The Women's Auxiliary Luncheon will be held

TUESDAY, NOON, FEBRUARY 3

at the Sacramento Inn,

on Hiway 40 toward Roseville

Ladies planning to attend should immediately notify Mrs. O. W. Schalm, 321 W. 8th St., Davis for reservations.

Registration and Luncheon, \$3.50

Dr. and Mrs. Ommert Participate in Grand National



Dr. Ommert Examines Patient



Mrs. Ommert at Grand National

The 14th Grand National Livestock Exposition, Horse Show and Rodeo, held in San Francisco's Cow Palace, October 31 to November 9, was one of the most successful ever staged.

Among the hundreds of participants were Dr. Willard D. Ommert and Mrs. Ommert, who is an excellent horsewoman. The Ommerts spent the entire ten days at the show.

Dr. Ommert, who is president of the Southern California VMA, attended horses of several clients during the show.

Mrs. Ommert, in the role of color bearer, helped open each performance during the Grand Entry and salute to the flag. She has participated in horse shows throughout the country, in various riding events.

Credit for the continuing success of the Grand National in San Francisco goes to J. W. Mailliard III, president, Nye Wilson, secretary-manager, and their capable staff at the Cow Palace.

Dr. B. O. Hebert is veterinarian in charge.

Welcome To Davis, 1959

Soon again it will be time for the Midwinter Conference of Veterinarians to be held on the Campus of the University of California at Davis.

As in the past, the faculty of the School of Veterinary Medicine invites all veterinarians to attend the conference. You are welcome to make full use of our facilities.

A number of the faculty are participating in the formal program but all are available to you for consultation on special items of your interest.

Dean Donald Jasper is on sabbatic leave but I know that he joins me in extending to the California Veterinary Medical Association a hearty welcome.

O. W. SCHALM, Associate Dean, School of Veterinary Medicine.

Hotel Reservations

Hotel El Rancho, West Sacramento, is official headquarters for living accommodations. For reservations there, or at nearby motels, please write direct, giving time of arrival and departure.

President's Banquet and Dance

HOTEL EL RANCHO

Tuesday, February 3, 1959, 8 P.M.

DR. WILLARD D. OMMERT

Master of Ceremonies

WOMEN'S AUXILIARY NEWS

The local auxiliaries all over the states are busy with their annual or winter projects. These serve as wonderful public relations for the veterinary profession. We wish we could report on more auxiliaries so that their activities could receive the recognition they deserve.

The Sacramento Valley Auxiliary reports the following officers and activities: President, Mrs. Bonnie Hoffman; Vice President, Mrs. Anne Story; Secretary, Mrs. L. Griffen; Treasurer, Mrs. Mary Reiner. They recently donated \$100 to the library of the Veterinary School at the University at Davis. They hope to make this an annual project. Every year they distribute two Thanksgiving baskets to needy families, and this year they will decorate a Christmas tree at the Crippled Children's Center. They have fun, too, so they are planning a Christmas party to include their husbands.

The Alameda-Contra Costa Auxiliary is another active group. Their newly elected officers, of which Mrs. J. M. Christensen is the president, were installed at a patio luncheon under the walnut trees at the new home of Mrs. Guy Railsback in Lafayette. Plans are also under way for a dinner dance in the fall.

The Southern California Auxiliary recently held its second annual benefit for Guide Dogs for the Blind, Inc. Mrs. Howard C. Taylor was general chairman for the "Sunday

Promenade" bruncheon which was held in the new International Ballroom of the Beverly Hilton Hotel. A fashion show and dancing concluded the successful party. This auxiliary is the only organization in the Los Angeles County area supporting this school at this time, and they can well be proud of their efforts. This school supplies dogs to the sightless free in 22 western states. Possibly more of the auxiliaries will become interested in this worthwhile cause.

Our State Auxiliary was represented at the National meeting in Philadelphia in August. Greetings were read from the men and women in the Veterinary profession in India. They hope to organize an auxiliary soon, but their greatest obstacle is the language problem.

There will be business, and fun, at the State Auxiliary meeting in Davis, so plan to attend. Mrs. Reginald Stocking, State President, invites you to become a member of the Women's Auxiliary to the California Veterinary Medical Association whose aim is to enhance and promote the veterinary profession. Dues of \$1.00 may be mailed to Mrs. Russell P. Cope, 3419 Lowell Ave., Richmond, Calif.

My personal thanks to those who helped make this report possible. I hope to hear from many more auxiliaries before the next issue of THE CALIFORNIA VETERINARIAN is due.

MRS. E. R. BRAUN, Publicity Chairman.
Box 21, Hanford, Calif.

Promotions Announced at Diamond Laboratories

H. L. Hansen, general manager of Diamond Laboratories and general partner for Diamond Laboratories Company, announced the promotions of four executives.

W. V. Wittern, sales manager for Diamond Laboratories, became assistant manager for three other companies in addition to his position as sales manager. The three companies are: Diamond Laboratories Company, United Veterinary Corporation and United Veterinary Laboratories. All companies are engaged in the production and sales of veterinary biological and pharmaceutical products.

Norman K. Jungk was promoted to the position of assistant manager and laboratories director for Diamond Laboratories. He was formerly director of the biological division for the firm.

Dr. Gordon Boylan was promoted to director of the biological division for Diamond Laboratories. He had been serving the firm as Mr. Jungk's assistant.

Merl D. Routsou will become administrative assistant to H. L. Hansen. He has been office manager for Diamond for the past four years.

Group Workmen's Compensation

As you know, every employee in California is requested to insure his liability for Workmen's Compensation in accordance with the California Workmen's Compensation Act, and terms, conditions and rates for this coverage are uniformly established and regulated by the State Department of Insurance.

At the business meeting held Monday, June 23rd, at the Hotel St. Claire, San Jose, a resolution was presented that the Group Workmen's Compensation Insurance be adapted as presented by William Clayton of Atkinson, Clayton & Atkinson. This resolution was accepted.

You can now take advantage of this group plan either by applying through your own broker; Atkinson, Clayton & Atkinson, 2881 El Camino Real, Redwood City, California, or your Secretary's office.

There are no requirements that a particular member of the association place his Workmen's Compensation Insurance in the group. However, the advantages are tremendous.

These advantages will be explained upon your request to Mr. Clayton or your Executive Secretary. This is another group plan that will save you money.

Laboratory Notes

From the Department of Clinical Pathology, School of Veterinary Medicine, University of California.

Canine Cerebrospinal Fluid

The superficial similarity of the cerebrospinal fluid and the aqueous humor to protein-free filtrates of blood plasma suggested that their formation was similar to that of the extracellular fluid of the body. A more careful investigation of their chemical composition in recent years indicates, however, that they are of a chemical composition different in many respects from fluids found in simple dialysates or ultrafiltrates of blood and are produced by specialized cells which must perform work in its elaboration. The cerebrospinal fluid is to be considered a secretion since energy is expended in its production.¹

Indications and Contraindications: Examination of cerebrospinal fluid is indicated whenever there is clinical evidence of central nervous system pathology, in selected cases of injury, and occasionally for prognostication of the disease state and its response to therapy. Removal of spinal fluid is also frequently performed for relief of abnormally high pressures and for the drainage of blood or exudates. In addition, two further indications for CSF removal would be: for the visualization of the central nervous system by X-ray procedures following the injection of air or lipiodol and finally in treatment, by the injection of drugs, anesthetics or serums.

Although lumbar and cisterna puncture are relatively safe and simple procedures, they should not be performed unless there are definite indications, with the advantages appearing to outweigh their disadvantages. The Veterinarian should be familiar with the anatomy and the procedure. The major contraindications are subtentorial tumors² with a greatly increased intracranial pressure, adhesions at the base of the brain in cisterna puncture, old cachectic states, or in animals with circulatory deficiency or spinal deformity. Punctures should not be performed through infected skin areas. It should be emphasized, however, that signs and symptoms of intracranial pressure, abscesses, hemorrhage, and the suspicion of brain tumor are indications for spinal puncture rather than contraindications.

Technique for Withdrawal of C.S.F.

Equipment should include sterile test tubes for the collection of the fluid and sufficient equipment to allow for a sterile technique to be performed. All possible precautions should be undertaken to prevent any microbial contamination of the subarachnoid space during the withdrawal of the fluid.

The preferred site for procuring cerebrospinal fluid in the dog is from the cisterna magna using the suboccipital approach. Lumbar puncture, as used in man, is difficult in the

¹ See page 20 for bibliography notes.

dog due to a small subarachnoid space in the lumbosacral area and the presence of the lumbar vertical arches.³ In suboccipital puncture, the dog should first be anesthetized. Struggling must be avoided to prevent damage to the medulla which is adjacent to the cisterna magna. The immediate area to the site of puncture (between the wings of the atlas to the external occipital protuberance) should be surgically prepared and draped with sterile towels. After placing the dog in the ventral recumbency, the head is ventrally flexed to separate the atlas from the occipital condyles.

Schirmer⁴ indicates the landmarks for puncture are easily located by palpating the anterior borders of the lateral processes of the atlas with the thumb and forefinger of the left hand, working from the anterior end of dog. The point of intersection of this transverse line (between the anterior borders of the atlas) and another longitudinal line (between the occipital crest to the dorsal process of the axis) is the location for puncture. A sterile 20-gauge 2½-inch Ayer spinal needle with stilette is inserted at the point described toward the nose of the dog. The needle should be inserted carefully, directed by thumb and forefinger until a sudden decrease in resistance indicates that the ligamentous covering of the atlanto-occipital foramen has been pierced. Cerebrospinal fluid will flow up slowly through the needle and between 2-4 ml. can be taken slowly (1 ml. per 30 seconds⁵) without harm. Cerebrospinal pressure has been observed to be halved following the removal of 5ml. of fluid.⁵

The cerebrospinal fluid of the dog has been studied by many investigators.^{3, 6, 7, 8, 9, 10, 11} The normal fluid is a clear, colorless liquid containing a few cells which usually resemble small lymphocytes. Pearlstein and Levinson⁹ found that cisterna puncture yielded an average of 2.2 cells/ cu. mm. as compared to 4.0/ cu. mm. from lumbar puncture in dogs under morphine—ether anesthesia. Cisterna magna puncture yielded 1-5 ml. of fluid as compared to 0.5-3 ml. from lumbar puncture. Information concerning the colloidol gold reaction has been reported by Fankhauser.¹²

Changes occurring in the cerebrospinal fluid of the dog are correlated more with the location of the lesions than with the type and severity of the clinical symptoms. Meningeal pathology produces greater changes in the fluid than lesions in the central nervous system parenchyma. It is not uncommon to observe considerable pathology of the cerebrospinal fluid with little or no clinical symptomatology. The importance of complete histopathological studies as correlated with the cerebrospinal fluid should be emphasized.

In a review by Fankhauser, canine cerebro-

spinal fluids were divided into three groups:¹²

TABLE I—Normal C.S.F. of the Dog

(From Fankhauser, *Zentralblatt für Veterinärmedizin*, Vol. 1, p. 151, Paul Parey, publisher, Berlin and Hamburg.)

| Appearance | Min- imum | Maxi- mum | Aver- age |
|---|--------------|--------------|--------------|
| Clear, colorless with occasional fibrin net | | | |
| Pressure (mm. H ₂ O) | 24 | 172 | 86.5 |
| Specific gravity | 1.0033 | 1.0125 | 1.0056 |
| Cells/ cu. mm. | | | |
| mature | 0 | 25 | 6 |
| under 7 months | 4 | 24 | 14 |
| Differential count | | | |
| small lymphocytes (%) | 15 | 95 | 65 |
| large lymphocytes (%) | 5 | 40 | 21 |
| degenerated forms (%) | 0 | 40 | 14 |
| A few endothelial cells are occasionally observed | | | |
| Total Protein (mg.%) | 11 | 55 | 27.5 |
| Pandy | ± | .. | .. |
| None-Apelt | .. | .. | .. |

1. Fluids with only minor variations in composition such as pleocytosis up to 30 cells/ cu. mm., and only slightly positive for their globulin content. This type of fluid can be found in poisonings, serous meningitis, tetanies, congenital hydrocephalus, spinal cord trauma from herniated intervertebral protrusion, and intraspinal tumors.

2. Fluids with xanthochromia, erythrocytes, total albumin up to 500 mg.%, with highly positive Nonne-Apelt and Pandy tests. This type of fluid is usually found in inflammatory processes with endothelial disruption and subsequent diffuse meningeal bleeding such as in Toxoplasmosis.

3. Fluids which are clear or slightly turbid with cell counts between 30-3,000/ cu. mm. Fibrinous flakes may be present with normal to increased cerebrospinal fluid pressure. Total protein levels are increased up to 150 mg.%, but the sugar level may be unchanged. Bindrich and Schmidt¹³ have observed similar changes in canine distemper. These changes are found generally in non-purulent meningoencephalidities.

It is possible to infer that if neutrophil counts and protein values are greatly elevated, meningitis is most likely present. Cell counts and protein values which are elevated to a lesser degree may suggest inflammation of the parenchymatous tissue of the central nervous system. It is impossible to make a diagnosis from the examination of the cerebrospinal fluid without its proper correlation with the clinical syndrome.

The cerebrospinal fluid of dogs with distemper was studied by Nigge¹⁵ and exhibited the following characteristics: fluid clear to opaque, increased globulin content, total protein levels up to 50 mg.% with increases in cell counts at time of nasal discharge prior to central nervous symptoms. Bindrich and Schmidt¹³ found cell types in distemper to be small lymphocytes, large lymphocytes, and degenerative forms. Cellular elements observed

(Continued on page 20)

Dr. Cameron Elected Faculty Research Lecturer

Dr. Hugh Stuart Cameron, University of California veterinary teacher and researcher since 1936, has been elected Faculty Research Lecturer for 1958-59.

The Scottish-born veterinary scientist, who has spent most of his academic career in work on brucellosis, was elected by fellow faculty members of the Davis campus to the lectureship honors for this academic year.

Dr. Cameron will deliver his lecture next spring in connection with the annual Charter Day ceremonies at Davis.

The Davis faculty committee, headed by Dr. Alden S. Crafts, in recommending its choice paid special tribute to his work with brucellosis.

"While Dr. Cameron's researches have emphasized the fundamental," the Davis committee declared, "he has also shown an appreciation of applied research, which is well indicated by his development of the whey test for brucellosis."

Dr. Cameron was born in Castle-Douglas, Scotland, in 1896, and he received his elementary education in Glasgow. After serving in the British Army during World War I, he came to the United States in 1923 and became a citizen in 1929.

His Doctor of Veterinary Medicine, Master of Science, and Doctor of Philosophy degrees all came from Cornell University. From 1931 until 1936, when he joined the University of California faculty at Davis, he was an instructor in veterinary science at Cornell.

U. of C. Accepts American Cyanamid Grant

The University of California School of Veterinary Medicine has accepted a grant-in-aid from American Cyanamid Company to study the effect of the antibiotic, Aureomycin chlortetracycline, on several economically important diseases of sheep and cattle under irrigated and native pasture conditions.

The studies, which will be under the supervision of Dr. Blaine McGowan, will stress efforts to control shipping fever pneumonia of feeder lambs. The effectiveness of the antibiotic as a control of this common disease problem will be tested in pellet and injectable forms, and may also be incorporated with ground salt.

The research group also plans to determine whether Aureomycin fed at low levels in winter feed supplements will prevent pneumonia and scours of calves in high mountain areas.

Laboratory Notes

(Continued from page 19)

by Veriver and Tennissen¹⁶ in non-purulent meningoencephalitis of dogs were erythrocytes, small lymphocytes, lymphocytes lacking cytoplasm adjacent to the nucleus, medium and large lymphocytes, monocytes and various mononuclear cells, plasma cells, gitter-cells, neutrophils, and differing degenerated forms. Giant cells were seldom observed with the majority of cells being lymphocytes and other mononuclear cells.

TABLE II — *Cerebrospinal Fluid in Various Clinical Conditions in Dogs in California*¹⁴

| Diagnosis | Cerebrospinal Fluid Characteristics |
|---|--|
| 1. Lymphosarcoma | 1250 cells/ cu. mm. (large mononuclears 81%, small mononuclears 8%, neutrophils 11%), and 57 mg.% total protein. |
| 2. Brain Tumor with Spondylitis | Xanthochromia, 55 leukocytes/ cu. mm. (neutrophils 78%, small and large mononuclears 22%), 4800 erythrocytes/ cu. mm., and 200 mg.% total protein. |
| 3. Chronic Encephalomyelitis | Clear, colorless fluid, 107 cells/ cu. mm. (neutrophils 3%, small mononuclears 97%) and total protein 320 mg.%. |
| 4. Distemper | Slightly turbid fluid, leukocytes 17/ cu. mm. (neutrophils 13%, small mononuclears 87%), erythrocytes 480/ cu. mm., Pandy's test 2+, and 51.3 mg.% of total protein. |
| 5. Hypertrophic Spondylitis | Pink, cloudy fluid with xanthochromia, neutrophils 32/ cu. mm., erythrocytes 12,000/ cu. mm., and 79.8 mg.% total protein. |
| 6. Chronic Disseminated Non-Suppurative Meningoencephalitis | Clear, colorless fluid, cells 30/ cu. mm. (neutrophils 9%, large mononuclears 91%), erythrocytes 25/ cu. mm., and 51 mg. % total protein. |

Monlux¹⁷ found xanthochromia in the cerebrospinal fluid of dogs in cases of icterus of long duration from infections with leptospira icterohemorrhagia. The fluid in most experimental cases of leptospirosis was free from pleocytosis and elevation in albumin content. Infections with Rabies virus produces, on the other hand, quite severe meningeal reactions in animals (30-1200 cells/ cu. mm., 60-98% lymphocytes).¹⁸ Such meningeal reactions are rare in human Rabies. In studies concerning the transfer of serum transaminases from the blood to the cerebrospinal fluid, it was found that little if any transfer of the serum glutamic oxaloacetic and glutamic pyruvic transaminases occurs following liver necrosis and only variable amounts following cerebral infarction.

C. E. CORNELIUS

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National Veterinary Wholesalers' Association

C. Guy Stephenson, owner and president of Goshen Laboratories, Inc., was elected president of the newly-formed National Veterinary Wholesalers' Association.

The organization was created at the recent AVMA meeting in Philadelphia, and is comprised of businesses that are independently owned and sell to veterinarians. Associate memberships will be offered to all concerns selling in the veterinary field.

The seeds of such an organization were sown early this year when wholesalers of veterinary products on the West Coast met and organized an Association of Veterinary Wholesalers. After they saw how well the organization functioned on the West Coast, it was decided to send a representative to the American Animal Hospital Association in Chicago.

George McConnell of the H. C. Burns Company, Oakland, had been elected secretary of the western group and was delegated to meet with the wholesalers in Chicago.

The national group hopes for a betterment of some of the conditions that have prevailed thus far in this industry.

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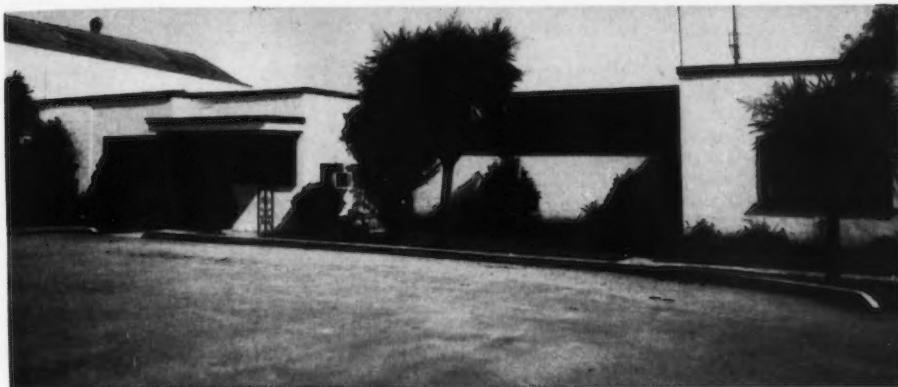
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Dr. Emmet Paul's Veterinary Hospital in Redwood City



EDITOR'S NOTE: Good photographs of Veterinary Hospitals are wanted for publication in THE CALIFORNIA VETERINARIAN

Perhaps the most interesting thing about Dr. Emmet Paul's small animal hospital in Redwood City is that it was built by Mrs. Paul, a handyman-carpenter, and Dr. Paul himself. When Dr. Paul returned from the armed services in 1946 the type of priority he needed for his plans could not be obtained. So he purchased a barracks (for lumber) and a metal pre-fabricated building and went to work.

The buildings and facilities grew piece-meal



Convenient Operating Room

through the years. According to Dr. Paul it is far from his ideal hospital, but more improvements are anticipated.

Among the features are redwood tile on the wall in the receptionist's office, and clay tile on the walls, floor to ceiling, in the treatment and operating rooms. There is also air-conditioning, a new FM radio, a kitchen with



Dr. Paul and Pre-Vet Student

coffee-bar, and adjoining living quarters where Dr. and Mrs. Paul lived while getting started. This room is now very handy for a kennelman and his family.

There is a large pumice-stone block room, without windows, which is practically sound-proof, with skylights and air-conditioned. This is for noisy dogs, except isolated cases, and most of the boarders are kennelized here. The hospital can accommodate 75 animals, with 20 outside runs.

This summer Dr. Paul employed a pre-veterinary student, George T. Ray (see photo), who obtained practical, on-the-job training before he returned to the School of Veterinary Medicine at Davis. Such employment not only aids the student but furthers the University of California's Farm Practice program.

Report, House of Delegates Committee

For some time a group of members has been interested in developing a House of Delegates to handle the business of our Association. A special committee consisting of Doctors J. M. Arburua, J. W. Harrison, R. J. Schroeder, A. Mack Scott, Richard Stiern, Fred Walker Jr., and myself has studied and prepared the essential changes to the Constitution and By-Laws necessary to provide a House of Delegates. This is now in the hands of the Ways and Means Committee.

It is expected that it can be presented to the Executive Committee at the winter meeting. It should then be published in *THE CALIFORNIA VETERINARIAN*. After which, each local association should arrange a meeting to acquaint the membership with the proposal so that final action may be taken at the June meeting.

The locals may call upon members to the special committee, the Ways and Means Committee or the Executive Committee to help explain how it would function.

It is patterned after the AVMA Constitution and By-Laws which is working so well. Each local association will be entitled to a delegate and alternate with voting power depending upon the membership. Transfer from one local to another will be simple and become effective at the first of the calendar year.

In this way the delegate may report to his local concerning the State Association activities, and be responsible for representing his local at the meetings of the state organization.

This should provide a smooth working organization with good coordination with all constituent associations. It is hoped it will meet with your approval.

CHARLES J. PARSHALL, D.V.M., Chairman.

National Livestock Loss Prevention Year to be Launched in '59

Plans to make 1959 "National Livestock Loss Prevention Year," with the practicing veterinarian featured in the forefront of the project, have been announced.

The 12-month nation-wide effort to reduce today's huge livestock losses from diseases and parasites will be conducted with the co-operation of farm magazines, radio and television farm editors, newspapers, leading livestock associations, and veterinary medical groups. It will be sponsored by member companies of Associated Veterinary Laboratories through their educational bureau, the American Foundation for Animal Health.

The coast-to-coast campaign will have two major objectives: to focus the farmer's attention on the really major causes of livestock losses and to emphasize the role of the veterinarian as best qualified to help prevent these losses.

Charles W. Friedrichs Elected President American Humane Assn.

Charles W. Friedrichs, Executive Secretary of The San Francisco Society for the Prevention of Cruelty to Animals, was recently elected president of The American Humane Association at its 82nd annual meeting held in Miami. He is the first San Franciscan to hold the office.

The American Humane Association was founded 81 years ago in Albany, New York, and its membership includes 500 humane societies and SPCA's throughout the country. Dedicated to the protection of children and animals, the Association annually sponsors "Be Kind to Animals Week," and was responsible for the Humane Slaughter Bill recently passed by the Senate and House. Friedrichs has been a director of the A.H.A. since 1950.

One of the nation's foremost humane authorities, Friedrichs became active in humane work in 1934 when he was appointed Assistant Secretary of The San Francisco SPCA. Four years later he was appointed Executive Secretary.

He is also associated with the State Humane Association of California. He served as Secretary from 1937-1958; and was elected President in 1958.

40th Convention, California Farm Bureau Federation

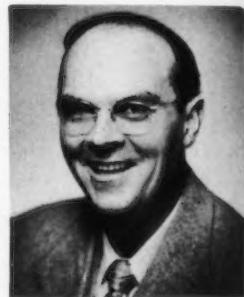
The 40th annual convention of the California Farm Bureau Federation was held in San Jose, November 9-13.

At the Dairy Department Conference, Dr. Kenneth G. McKay, Extension Veterinarian from the School of Veterinary Medicine, spoke on "Mastitis and its Prevention." The same conference was also addressed by Dr. Ben H. Dean, Public Health Veterinarian, who spoke on "Animal Diseases and Public Health."

Other veterinarians who contributed to the program were Dr. Raymond A. Bankowski, Dr. Hugh Cameron, Dr. J. A. Howarth, and Dr. J. E. Stuart.

Associate Executive Secretary Kenneth Humphreys, CVMA, attended the convention.

President of the group is Louis A. Rozzoni. Russell Richards is secretary of the Federation's Dairy Department.



CHARLES W. FRIEDRICH

Southern California VMA Golf Trophy Won by Dr. Vierheller



Dr. Ralph C. Vierheller of Whittier is shown receiving the championship trophy in recognition of his win in the annual SCVMA tournament with a net 64.

This year's tournament was played on September 25 over the championship Los Coyotes Country Club in Buena Park, California. The 56 entries made this the largest golf tournament among the veterinary groups. The dinner and presentation ceremonies were attended by 89 veterinarians and their wives from southern California.

Dr. Willard D. Ommert, SCVMA president, pictured at left, presented the trophy to Dr. Vierheller. Others in picture are Dr. A. Mack Scott, golf chairman; Dr. Fred B. Walker, Jr., California VMA immediate past-president. Front row: Mr. Ken Humphreys, CVMA associate executive secretary and Dr. Charles H. Ozanian, CVMA president-elect.

Other winners: Dr. Joe Briggs — second flight; Dr. William Riddell—third flight; Dr. O. A. Warner—fourth flight and Dr. Norman L. McBride, Jr.—fifth flight.

Dr. Muller Active in CVMA Speakers' Bureau

Dr. George H. Muller, Walnut Creek, recently addressed the senior class of the Pleasant Hills High School.

His subject, which was received with great interest and resulted in numerous questions, was "Veterinary Medicine As a Career."

More than 60 members of the State Association have signed up with the Speakers' Bureau to give talks before schools, PTA groups, 4-H gatherings, etc. Co-chairmen of the committee are Dr. Ralph C. Vierheller and Dr. Howard F. Carroll.

Dr. Stocking to Address Veterinary Groups

Dr. Reginald A. Stocking, Los Angeles, will address the 75th annual convention, Ohio State VMA, February 4-6, in Columbus.

He will also speak before the Washington State VMA, April 6-8, in Pullman, Washington.

Coolidge Named by Schering Corp.

Kenneth G. Coolidge has been named to the newly created position of veterinary sales training manager for Schering Corporation, it was announced by Roy R. Conner, veterinary marketing manager.

Coolidge will be responsible for developing and supervising a training program for the company's expanding veterinary sales force.

Applicants

William M. Blackmore, Los Angeles. Vouchers: Paul C. Lockhart, Philip C. Olson.

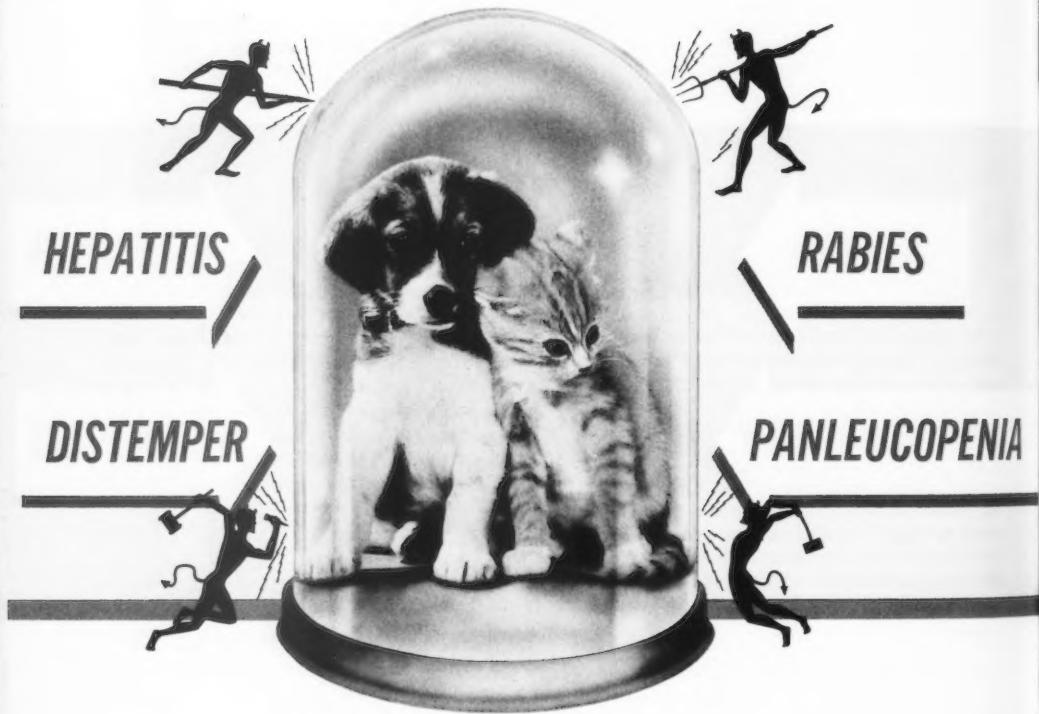
Merrill A. Burt, Sacramento. Vouchers: Richard L. Stowe, R. E. Duckworth.

George Anthony Lakes, Oxnard. Vouchers: H. W. Mackey, Ernest T. Parizo.

Arthur L. Gilger, San Mateo. Vouchers: Howard F. Carroll, Thos. M. McIntyre.

A. Erwin Erickson, San Francisco. Vouchers: Howard F. Carroll, Thos. M. McIntyre.

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Tri-jex, Sin-jex, Femulgen are trademarks.



TRI-JEX

... contains killed viruses of canine distemper and infectious canine hepatitis, plus killed cultures of *Brucella bronchiseptica*, *Streptococcus pyogenes* and *Salmonella typhimurium*. Dogs are protected against two of their most serious virus diseases as well as the important secondary bacteria usually associated with these diseases. Tri-jex confers immunity quickly. Supplied in 3 x 5 cc.—1 dose vials and 50 cc. vials.



SIN-JEX

... good immunity against canine distemper and infectious hepatitis at the same time with a single injection. Sin-jex is the first successful combination of a vacuum dried, modified live virus distemper fraction (chick embryo origin) with a killed virus hepatitis fraction as diluent. Sin-jex is instantly reconstituted into a fine homogeneous suspension which passes easily through a 22 gauge needle, and produces immunity in less than 2 weeks. Supplied in 6 x 3 cc.—1 dose vials.



FEMULGEN

... single-injection vaccine for immunization against feline distemper (feline infectious enteritis, malignant panleukopenia, infectious feline agranulocytosis, etc.). Femulgen is a homologous vaccine, prepared from the tissues of young susceptible cats inoculated with virulent feline distemper virus. This virus is extracted, inactivated with formalin and suspended in an oil emulsion. Supplied in 5 x 1 cc.—1 dose vials, with disposable syringe.



RABIES VACCINE

... both phenolized and chick embryo origin, for positive immunization against rabies for period of one year. Supplied in 5 x 3 cc.—1 and 10-dose vials for live virus (chick embryo origin), 50 cc. vials for phenolized suspension.



ANTI-CANINE DISTEMPER SERUM and ANTI-INFECTIOUS HEPATITIS SERUM

... immediate passive immunity against canine distemper and infectious hepatitis. Supplied in 100 cc. vials.



CANINE DISTEMPER VACCINE

... modified live virus, (chick embryo origin) for immunization against distemper in dogs. Supplied in 6 x 2 cc.—single-dose vials.



OUT-OF-STATE NEWS

Arizona VMA

The Arizona VMA's annual meeting was held at the Yuma Country Club, December 7-9.

Dr. Charles H. Ozanian, president-elect, CVMA, and Dr. Norman L. McBride, Jr., were among the speakers.

Dr. McBride presented a group of films on small animal surgery, including electro-surgery tonsillectomy, performed by using an electrified and insulated Tidings snare; mammectomy and control of hemostasis by electro-surgery; use of the Stanton valve. Another film covered diaphragmatic hernia in a cat performed under controlled respiration by means of the AVR unit for forced inspiration and expiration and the use of Halasan, a non-explosive, inhalation anesthetic.

A third film was on pyometra, demonstrating the use of the Stanton valve for delivery of oxygen by forced inspiration and expiration to a toxic subject, and the method of ligation of the ovarian artery. Two other films covered orchiopexy, and the reconstruction of the anterior cruciate ligament by means of a fascia lata transplant.

Nevada VMA

Doctors Joseph and Nancy Leveque are now associated with Dr. Phillipson's Blue Cross Animal Hospital in Las Vegas.

Dr. Robert W. Horton is associated with the Fisher Animal Clinic in Las Vegas.

Dr. Paul Silva and Dr. Brian Hutcherson, Reno, packed into the Jackson Hole country of Wyoming for 10 days during September. They reported a very enjoyable trip during which each of the doctors acquired a bull elk as a hunting trophy.

New Editor for Veterinary Medicine

Dr. Carlos M. Cooper has been named editor of *Veterinary Medicine*, effective October 1. He succeeds the late Dr. Albert L. Anderes.

Dr. Cooper graduated from Iowa State College in 1949. He was research director at Jensen-Salsbury Laboratories before joining the magazine.

Dr. Stiern Elected to State Senate

Dr. Walter W. Stiern, Bakersfield, was elected to the California State Senate from Kern County at the recent November election.

Dr. Stiern conducted a vigorous campaign and his election as State Senator is to the highest elective office ever held by a member of the CVMA.

Group Workmen's Compensation Insurance

AVAILABILITY

Members may place their policies with Cal Comp through their own insurance brokers.

DIVIDEND RETURN

Dividend returns earned by the group will be determined nine months after expiration of the group policy, in accordance with the ruling of the Insurance Commissioner.

California Compensation &
Fire Company

ELIGIBILITY

Membership in the California Veterinary Medical Association.

Note:

Dividends may not be guaranteed in advance by any insurance carrier in California, and must be paid from earned surplus.

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Sixteenth International Veterinary Congress, Madrid

The United States Committee for the XVIth International Veterinary Congress to be held in Madrid, Spain, May 21-27, 1959, has received a limited supply of the Preliminary Program of the Congress, also forms for applying for membership or for subscribing to the 2-volume Proceedings of the Congress.

Veterinarians from all countries may register as members and should send their applications through their respective national committees. Veterinarians in the United States who are interested in joining as regular members, whether or not they plan to attend, will receive the Congress Proceedings as part of their membership; those who only want to receive the publications may subscribe for them.

The fees are as follows:

Ordinary (regular)

| | |
|----------------------------------|---------------------|
| Member | 600 pesetas—\$15.00 |
| Subscriber for publications only | 400 pesetas—10.00 |

Interested veterinarians may obtain applications by writing to: U. S. Committee, XVIth I.V.C., c/o AVMA, 600 S. Michigan Ave., Chicago 5, Ill.

The opening session of the Madrid Congress will take place on Thursday, May 21, and the final session on Wednesday, May 27. The headquarters of the Organizing Committee will be in the Faculty of Medicine (School of Dentistry) at University City. The sessions will be held in various locations. During the Congress, various excursions will be made to nearby points of interest, and there will also be special activities for ladies.

On Sunday, May 24, a special trip for all Congress members will be made to the Escorial and to the "Valle los Caídos," with a bullfight in the country.

Official Tour—The U.S. Committee has arranged with Travel Service Bureau, Needham, Massachusetts, to handle group travel to Madrid for U. S. participants; already, a large number have indicated their intentions to take one of the four tours offered in the leaflet mailed early in September. Anyone interested and who failed to receive the tour leaflet may obtain complete information by writing to Mr. Nelson M. Jost, Travel Service Bureau, Inc., 32 Dedham St., Needham 92, Mass., or to the U. S. Committee.

U. S. Committee on the XVIth I.V.C.
W. A. Hagan, Chairman,
J. G. Hardenbergh, Secretary.

EDITOR'S NOTE: At its meeting in Paris, May 22, 1958, the Permanent Congress of the International Veterinary Congresses discussed a proposition that, in future, the International Veterinary Congresses should be called World Veterinary Congresses and that the organization which has been built up in connection with these Congresses should be called World Veterinary Association.

CVMA Committees

Executive Committee

Chairman, Richard L. Stowe, 2500 16th St., San Francisco.
Charles H. Ozanian, 10326 E. Artesia, Bellflower.
Russell P. Cope, 1205 San Pablo Ave., Berkeley.
E. R. Braun, P.O. Box 21, Hanford.
Ernest H. Houchin, 40 West Santa Clara St., Ventura.
Ralph L. Collinson, 1550 McHenry Ave., Modesto.
Fred B. Walker Jr., Rte 3, Box 619, Escondido.

Program Committee

Chairman, Ernest H. Houchin, 40 West Santa Clara St., Ventura.
Co-chairman, Midwinter Conference, John W. Kendrick, School of Veterinary Medicine, Davis.
TV Coordinators, Charles H. Reid, P.O. Box 735, Hollywood; Robert Cello, School of Veterinary Medicine, Davis.
Co-chairman, June Meeting, Joshua F. Meyer, Box 604, Camarillo.
Herbert N. Snow, 23431 Pacific Coast Hwy, Malibu.
J. L. Sullivan, 13476 Washington Blvd., Venice.
Willard D. Ommert, 5595 Gardendale Ave., Hollywood.

Legislative Committee

Chairman, Robert W. Ormsbee, 2076 E. Fremont, Stockton.
William E. Steinmetz, 4227 Freeport Blvd., Sacramento.
Richard B. Barsaleau, 2333 E. Mineral King, Visalia.
Fred B. Pulling Jr., Box 608, Atascadero.
John E. Craigie, 1016 Olympia, Seaside.
Roger V. Jessup, 910 Crestview Ave., Glendale.
Ralph L. Collinson, 1550 McHenry Ave., Modesto.
Advisor.

Ways and Means Committee

Chairman, Philip C. Olson, 7970 Santa Monica Blvd., Los Angeles.
L. M. Proctor, 24 Meadow Lane, Concord.
J. Bradley Crundwell, 704 Roselli, Burbank.
Herbert I. Ott, 11564 E. Firestone Blvd., Norwalk.
Irving M. Roberts, 9884 MacArthur Blvd., Oakland.
Willard D. Ommert, 5595 Gardendale Ave., Hollywood.

Resolutions Committee

Chairman, Gaylord K. Cooke, 31 Rincon Rd., Berkeley.
Raymond E. Duckworth, 828 Euclid Ave., Berkeley.
Robert A. Dove, Box 880, Porterville.
Gordon D. Hambrook, 1926 Fremont, Seaside.
Ethical and Professional Conduct Committee
Chairman, Charles H. Ozanian, 10326 E. Artesia, Bellflower.
Charles H. Reid, P.O. Box 735, Hollywood.
Wendell L. Kanawyer, 5601 Mission St., San Francisco.
Chester A. Maeda, 766 E. Highland, San Bernardino.
Tom D. Harris Jr., 2600 So. El Camino Real, San Mateo.

Public and Professional Relations Committee
Chairman, John B. Carricaburu, Box 155, Santa Ynez.
Reginald A. Stocking, 3166 Los Feliz Blvd., Los Angeles.
Norman T. Freid, 298 Monterey Blvd., San Francisco.
E. R. Braun, P.O. Box 21, Hanford.
Ralph C. Vierheller, 907 W. Philadelphia St., Whittier.
Charles S. Travers, Executive Secretary, CVMA.
Secretary of Committee.

House of Delegates Committee

Chairman, Charles J. Parshall, 47 Jackson St., Hayward.
Joseph M. Arburua, 3020 26th Ave., San Francisco.
Fred B. Walker Jr., Rte 3, Box 619, Escondido.
A. Mack Scott, 3350 Atlantic Ave., Long Beach.
Richard A. Stiern, 17 Nile St., Bakersfield.
Joseph W. Harrison, 2701 Chanticleer Ave., Santa Cruz.
Robert J. Schroeder, 9738 Tecum Rd., Downey.

Dr. Arburua Addresses Senior Class, Davis

Dr. Joseph M. Arburua addressed the senior class, School of Veterinary Medicine, Davis, on November 10, 17 and 24.

His subject was "History of Veterinary Medicine."

Pfizer Laboratories' Appointments

Appointment of Dr. Hilmer L. Jones as veterinary medical director of Pfizer Laboratories was announced by Dr. J. J. Van Gasse, general manager of the pharmaceutical division of Chas. Pfizer & Co., Inc.



DR. HILMER L. JONES

veterinarians in private practice.

Formerly a research veterinarian at Pfizer's Agricultural Research and Development center near Terre Haute, Ind., Dr. Jones holds B.S., M.S. and D.V.M. degrees from Alabama Polytechnic Institute.

Arthur R. Baca, Los Angeles, has been appointed a veterinary sales representative by Pfizer. Baca will keep veterinarians in Southern California informed of new animal health products and research developments by the 109-year-old pharmaceutical and chemical firm.

Dr. McFarland Now Chief, Bureau of Meat Inspection

Dr. Ray W. McFarland has been appointed Chief of the Bureau of Meat Inspection, California Department of Agriculture, to fill the vacancy created by the retirement of Dr. Geoffrey A. Boyd.

Dr. G. W. Yeager has been appointed to the assistant chief's position vacated by the promotion of Dr. McFarland.

Rabies Endemic Areas

The California State Department of Public Health has reported the following California counties endemic rabies areas, January 1-October 31:

Alameda, Amador, Butte, Colusa, Contra Costa, El Dorado, Glenn, Imperial, Kern, Lake, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Sacramento, San Joaquin, San Luis Obispo, Santa Clara, Shasta, Solano, Sonoma, Sutter, Trinity, Tuolumne, Ventura and Yuba.

The Editor

Jensen-Salsbury Laboratories' back page advertisement in color describes Cytolip. Development of this product marks the initial use of modern tissue culture methods in the production of a canine hepatitis vaccine. Constant control in Jen-Sal's exclusive Cellorogen process guarantees a protective agent which is strongly immunogenic, safe and pure. A single 2 cc. subcutaneous or intramuscular injection two weeks after weaning builds a high level of protection against hepatitis during the critical period of a dog's life. In cartons of six single dose vials from any Jen-Sal Branch or representative.

* * *

Another new product from **Fromm Laboratories, Inc.** is TRIOD. Available in 10-dose and 1-dose packages, Triod is a chemically inactivated canine distemper virus and a chemically inactivated canine hepatitis virus together with an inactivated broth culture of *Leptospira canicola* desiccated to insure full retention of the antigenic properties of the various components. For immunization of dogs against canine distemper and infectious canine hepatitis and *Leptospira canicola* sp.

* * *

Virogen is often imitated; never duplicated, says **Pitman-Moore Company** Division of Allied Laboratories, Inc. In Virogen D-H, this unmatched vaccine has been augmented by the addition of a potent anti-hepatitis vaccine. For that reason, they state, Virogen D-H is the product of choice for complete protection against the diseases most devastating to dogs—distemper, hepatitis, and the common secondary bacterial invaders of the distemper complex.

* * *

Kal Kan Foods, Inc. offer Lang's Clinical Formulas (sold only through registered veterinarians) "A" for aging cats; for nephritic conditions—"E" for growing animals; for pregnant or nursing mothers; for pre-surgical and convalescence diets—"O" for overweight dogs—"G-I" for gastro-intestinal diseases; for orphaned pups—"Cat" for diseases of the genito-urinary tract; for mature cats. They also have a variety of Kal-Kan products—horse meat; chunk style meat products; tuna; fresh ocean fish and basic diets.

* * *

Haver-Lockhart Laboratories advertises Havlocin, which magnifies penicillin action 5 times. Havlocin is a potent new antibiotic combination—an ester of penicillin plus dihydrostreptomycin. It has the unique ability to develop tissue concentration of penicillin up to 5 times greater than obtained by corresponding doses of procaine penicillin. And because of its specific affinity for lung and mammary tissues, this product is quick and effective for respiratory infections in large and small animals and for intramuscular mastitis therapy.

Reviews Ads

From **Fort Dodge Laboratories, Inc.**—the first practical, effective treatment for lungworm infection—Dictyicide. Until the development of Dictyicide, their advertisement states, there was no specific treatment for lungworm infection. Discovered during the screening of more than 3,000 agents, Dictyicide now gives the veterinarian a means of bringing lungworm infection under control. An illustrated brochure on lungworm infection, describing its treatment with Dictyicide, is available to veterinarians and students. You are invited to write for a copy.

* * *

With this issue **Western Veterinary, Inc.**, of Glendale, makes its debut. Three years in the development stage, West-Vet offers a new concept in pharmaceuticals and biologicals among Western Veterinarians. Their veterinary products are designed for particular clinical problems peculiar to animals in the western states. Products are continually tested on western animals for efficacy and safety at the West-Vet Experimental Farm in Tulare. Their developmental laboratory is staffed by experienced graduate veterinarians. A comprehensive catalog may be obtained free on request to Western Veterinary, Inc., Glendale, California.

* * *

Wyeth Laboratories feature two of their well-known products in this issue: Sparine and Equanil, both supplied only to the profession. As pre-anesthetic medication in the horse the preferred dosage of Sparine is 0.5 mg. per pound body weight intravenously. Maximum effect is noted within 15 minutes. Properly tranquilized, these horses, as a rule, are back on their feet within an hour. Equanil is for problem dogs—it calms the vicious patient. Relieves tension, agitation and anxiety. Effectively controls hyperexcitability, hysteria, nervousness, unruliness and shyness. Available in 400 mg. tablets, bottles of 50.

* * *

Daribiotic, injectable, effectively fights systemic infections, states **The S. E. Massengill Company**. Daribiotic is synergistically strengthened; broad spectrum antibiotic combination. Its advantages: wide antibacterial spectrum; synergistic—each antibiotic enhances the effectiveness of the other; rapid bactericidal blood levels; resistant organisms rarely develop; and ready to use—no mixing—stable for 2 years. Daribiotic is supplied in 10 cc. multidose sterile vials. Each cc. contains 100 mg. Neomycin Sulfate and 100,000 units Polymyxin B. Sulfate.

OPPORTUNITIES

For Sale

Will sell small animal practice and hospital; center San Fernando Valley. For particulars write Box A-68, THE CALIFORNIA VETERINARIAN.

* * *

Modern, complete small animal hospital in Arizona. Owner retiring. Requires \$15,000 cash to handle. Write Box A-69, THE CALIFORNIA VETERINARIAN.

* * *

Relief Work

Available for relief work. Experienced; licensed in California. Dr. J. Guthrie Blue, 2121 East Second St., Tucson, Arizona.

* * *

To Buy

Small animal business in S.F. Bay Area or between San Diego and Los Angeles. Dr. M. A. Custer, 412 14th St., Toledo, Ohio.

* * *

Position Wanted

Experienced, energetic, personable small animal practitioner with initiative and adaptability, seeks permanent position with grade-A hospital, provided option to lease or purchase, or become a full partner is specified after reasonable period of mutually satisfactory association. Richard A. Shea, D.V.M., 1506 Vivian Lane, Newport Beach, Calif.

* * *

Desire partnership in thriving small or mixed animal practice of good, ethical professional standing. Excellent background experience. Calif.-licensed. Due for discharge from service in February. Box A70, THE CALIFORNIA VETERINARIAN.

* * *

Veterinarian Wanted

Veterinarian wanted for small animal hospital. Contact Los Feliz Small Animal Hospital, 3166 Los Feliz Blvd., Los Angeles.

* * *

Exchange

Exchange relief work wanted for 2-3 weeks next summer, with a small animal veterinarian in a beach or mountain area—purpose being to give my family an added vacation. My hospital is a small one-man operation in the Los Angeles area. R. L. Woolf, D.V.M., 2821 Piedmont Ave., Verdugo City, Calif.

Examinations to Be Held

The Board of Examiners in Veterinary Medicine announce that examinations will be held January 29, 30 and 31, 1959, at the School of Veterinary Medicine, Davis.

LOCAL ASSOCIATION NEWS

Redwood Empire VMA

The regular meeting of the Redwood Empire VMA was held on September 18 at the Green Mill in Cotati. The speaker was Dr. Robert Cello, and the program was unique in that it was conducted by telephone between Dr. Cello's home in Davis and the meeting place.

A special hook-up by the telephone company allowed questions to be asked and Dr. Cello's answers were amplified through two loud-speakers. His subject was Canine Distemper, particularly stressing a new test on blood smears for early diagnosis and minimum age for vaccination. He also touched on the use of cortico steroids for skin problems; the use of tranquilizers and a few thoughts on glaucoma in the canine eye.

According to Dr. Raymond Rediske, secretary-treasurer, the fee for the one-hour long distance call was nominal.

At the October 16th meeting of the Redwood Empire VMA, also held at the Green Mill, thirty members and guests heard Dr. Brawnschweig, a graduate of a veterinary college in Germany. He came to this country after the Korean War and is presently associated with Dr. H. P. Boyd of Mill Valley.

Charles S. Travers, executive secretary, and Kenneth Humphreys, associate executive secretary, CVMA, were in attendance.

* * *

Santa Barbara-Ventura Counties VMA

The October dinner meeting of the Santa Barbara-Ventura Counties VMA was held at the Pierpont Inn, Ventura, October 28. Wives of members were guests.

Dr. and Mrs. Ernest M. Houchin provided entertainment by showing slides taken of their recent European trip. A Christmas party was planned to be held in Oxnard.

* * *

Bay Counties VMA

Ladies' Night was held October 25, at the Alta Mira Hotel, Sausalito. More than fifty doctors and their wives were in attendance. A prime rib dinner was followed by dancing until the late hours. The affair, an annual event, was arranged by Dr. George McDaniel and his committee—with special kudos to Mrs. McDaniel.

* * *

Alameda-Contra Costa VMA

The October 29 meeting of the Alameda-Contra Costa VMA was held at the El Nido Rancho, Lafayette.

Guest speaker was Dr. Ralph C. Vierheller,

Whittier, who spoke on "Indications and Techniques for the Extraction of the Cystidial Lens of the Dog." His talk was accompanied by colored slides prepared and shown by Dr. Philip C. Olson, Los Angeles, who accompanied Dr. Vierheller.

More than fifty members and guests attended, including Kenneth Humphreys, associate executive secretary, CVMA.

At the November 19 meeting a program, "The Doctor Builds His Estate," was presented by John Menikas, member of a Bay Area investment firm.

* * *

Mid-Coast VMA

Guest speaker at the October 23 meeting of the Mid-Coast VMA was Dr. Robert A. Dove, Porterville, who included a film on everyday events in a small animal hospital as a highlight of his talk.

Officers elected were: Dr. Russell R. Burton, president; Dr. Dave Wixom, vice-president, and Dr. W. H. Rockey, secretary-treasurer.

* * *

Southern California VMA

More than 200,000 visitors viewed the Southern California VMA's booth at the Los Angeles County Fair, Pomona. The exhibit depicted various phases of veterinary medicine, and was arranged by Drs. David Splaver, Ernest Williams, and Don Mahan.

On November 15 the Las Vegas Veterinary group met at the Desert Inn, Las Vegas, and heard a veterinarian from the Atomic Energy Commission discuss the veterinarian's place in the nation's atomic energy program. Immediately after the meeting a golf tournament was held on the famous Desert Inn course. Several doctors from northern California attended, as well as many from southern California. The program was arranged by Dr. A. Mack Scott and Dr. Murray Phillipson.

"Old Timer's Night" and western barbecue was held November 19 at the California Country Club, Whittier. The meeting was dedicated to the "old-timers" of the SCVMA.

Lt. McCapes to Georgia

Lt. Richard H. McCapes, VC, has been assigned to Fort Benning, Georgia, for two years. Richard, son of Dr. A. M. McCapes, San Luis Obispo, a past president of the CVMA, graduated from the School of Veterinary Medicine, Davis, last June.

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2. Malpractice Liability.
 - A. Professional services rendered, mistake, error, etc.
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 - A. Loss, theft, escape, self injury, burglary, robbery, etc.
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 - A. Goods or products, sold, handled, or distributed by insured.
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 - A. Lease agreement, etc.
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 - A. Protects insured if employees use own car for business purposes.
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or CVMA Office — 3004 16th St., San Francisco 3

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Until the development of Dictycide, there was no specific treatment for lungworm infection. Yet, the condition has been nationwide and its effects extremely costly to raisers of swine, sheep, and cattle. Incidence has been found to reach proportions up to 60% and 70%.

Dictycide, discovered during the screening of more than 3,000 agents, now gives the veterinarian a means of bringing lungworm infection under con-

trol. Exhaustive field tests over the past 18 months on more than 10,000 animals, in 33 states, have proved Dictycide's effectiveness. Injected as recommended, this new Fort Dodge anthelmintic expels the adult lungworms from the air passages of infected animals.

An illustrated brochure on lungworm infection, describing its treatment with Dictycide, is available to veterinarians and students. Please write for a copy.



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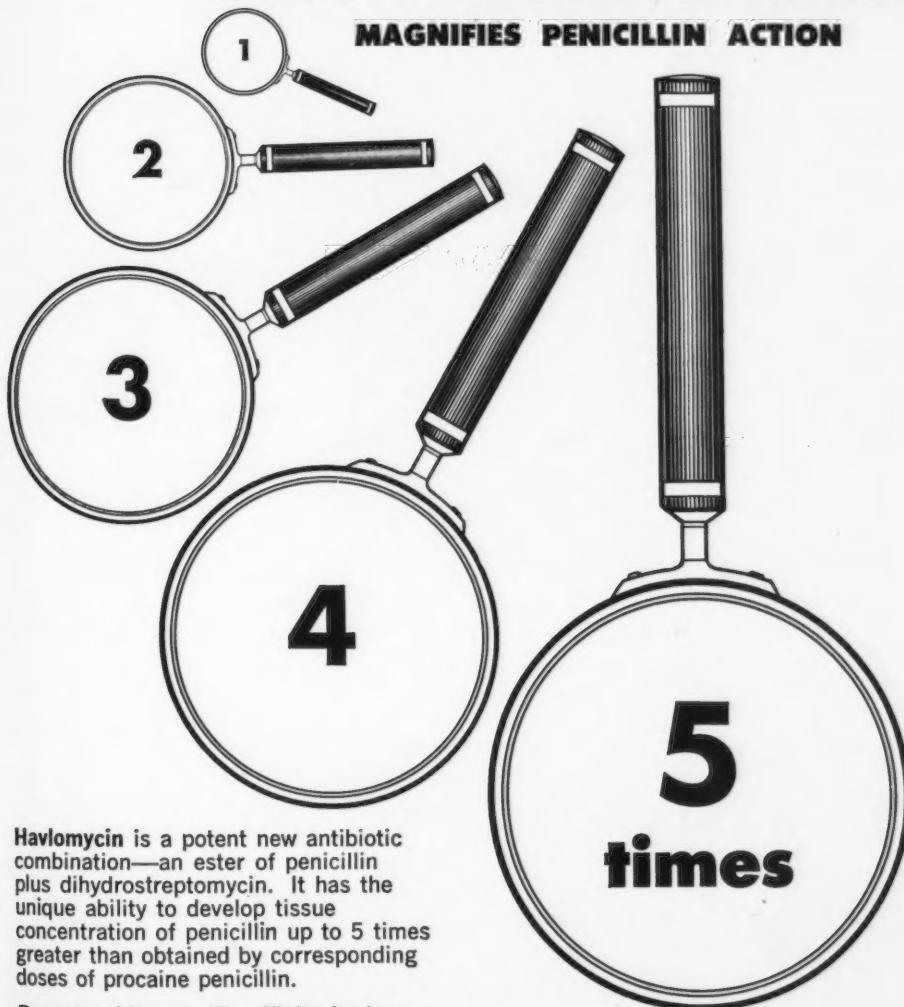
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Havlomycin is a potent new antibiotic combination—an ester of penicillin plus dihydrostreptomycin. It has the unique ability to develop tissue concentration of penicillin up to 5 times greater than obtained by corresponding doses of procaine penicillin.

Because of its specific affinity for lung and mammary tissues, Havlomycin is quick and effective for respiratory infections in large and small animals and for intramuscular mastitis therapy.

Dosage: large animals, 1 cc. per 100 lb. body weight once daily for 2-4 days.
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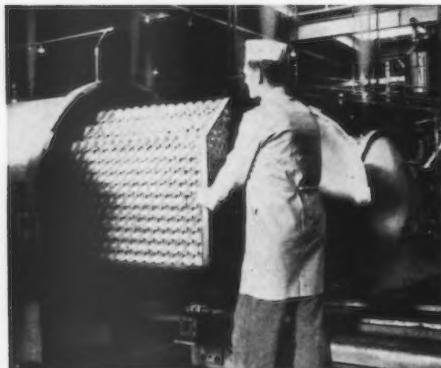
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1. Charles Raker, V.M.D., Professor of Veterinary Surgery, University of Pennsylvania. Annual Meeting of the American Veterinary Medical Association, Aug. 18-21, 1958, Philadelphia, Pennsylvania.

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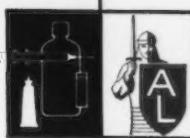
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